

ABSTRACT OF THE DISCLOSURE

Systems and methods for energizing an electrical resistance igniter are disclosed. The systems and methods determine the line voltage into the system and control the voltage being applied to the electrical resistance igniters so a first voltage is applied initially and for a time period and thereafter a second voltage is applied, the second voltage being the operating voltage for the igniter. The systems and methods decrease the amount of time required to heat-up the electrical resistance igniter to a temperature sufficient to ignite the gas while regulating the output voltage being delivered to the igniters to prevent over voltage damage to the igniters.

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